



Sheet 1 of 9

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ATTY. DOCKET NO.		SERIAL NO.	FILING DATE				
09328.105084 KMRA 37		10/706,450	November 12, 2003				
APPLICANT		GROUP					
Rosencrance et al.		1731					
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CL	AA	6,540,870	04/01/03	Laurila-Lumme et al.			
	AB	6,376,455	11/22/00	Friedli et al.			
	AC	6,312,559	11/06/01	Irinatsu et al.			
	AD	6,210,526	08/24/99	Pohlen			
	AE	5,968,313	05/07/97	Bentley			
	AF	5882476	05/05/95	Evans et al.			
	AG	5,817,212	10/06/98	Jobbins et al.			
CL	AH	5,837,099	01/28/97	Borchardt			
	AI	5,811,381	10/10/96	Emalfarb et al.			
	AJ	5,807,464	02/03/97	Jobbins et al.			
	AK	5,801,135	09/01/98	Miyauchi et al.			
	AL	5,801,134	10/12/95	Miyauchi et al.			
	AM	5,725,730	03/10/98	Smolka et al.			
AN	AN	5,712,233	01/22/96	Rasheed			
CL	AO	5,696,292	12/09/97	Cody et al.			
EXAMINER		22		DATE CONSIDERED		9/1/05	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CL	BA 5667927	02/23/96	Kubota et al.			
	BB 5,651,861	07/29/97	Larson et al.			
	BC 5,637,191	06/10/97	Langley et al.			
	BD 5,622,597	04/22/97	Callen et al.			
	BE 5,601,689	02/11/97	Sacripante et al.			
	BF 5,540,814	07/30/96	Curtis et al.			
W	BG 5,527,426	05/05/94	Marwah et al			
CL	BH 5,512,134	07/29/94	Daute et al.			
	BI 5,505,817	10/19/93	Rodriguez et al.			
	BJ 5,442,082	12/16/94	Uphues et al.			
	BK 5,429,716	06/28/93	Hache et al.			
	BL 5,417,808	08/23/95	Okamoto et al.			
	BM 5,415,733	05/16/95	Robinson et al.			
W	BN 5,401,360	09/09/92	Galland			
CL	BO 5,384,010	08/27/93	Hou et al.			

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APPLICANT Rosencrance et al.	GROUP 1731	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CL	CA 5,362,363	04/20/92	Smolka et al.			
	CB 5,346,543	09/13/94	Hirakouchi et al.			
	CC 5,342,483	12/10/92	Hwang			
	CD 5,332,474	01/19/93	Maxham			
	CE 5,308,448	02/08/93	Behler et al.			
W	CF 5,259,969	09/16/91	Srivatsa et al.			
PL	CG 5,288,369	11/22/91	Ishibashi			
	CH 5,286,346	02/15/94	Engelskirchen et al.			
	CI 5,282,928	05/29/92	Takahashi			
	CJ 5,258,099	07/17/92	Borchardt			
	CK 5,234,545	04/24/92	Fabry et al			
	CL 5,228,953	10/30/91	Bast et al			
	CM 5,227,019	07/13/91	Borchardt			
W	CN 5,225,046	07/06/93	Borchardt			
PL	CO 5,221,433	01/13/92	Daute et al.			

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PL	DA	5,102,500	04/07/92	Darlington			
	DB	4,971,656	03/31/89	Lehmann et al.			
	DC	4,959,123	02/02/80	Lehmann et al.			
	DD	4,820,379	04/11/89	Darlington			
	DE	4780179	01/27/86	Clement			
	DF	4,561,933	04/15/85	Wood et al.			
CL	DG	4,483,742	02/25/83	Bridle			
	DH	4,013,505	05/30/75	Balcar et al.			
	DI	587,099	07/27/1897	Levi			
	DJ	RE 36,424	12/07/99	Clement			
	DK	2003/0157595	06/03/99	Emalfarb et al			
	DL	2003/0125534	07/03/03	Callen et al.			
	DM	2003/0106654	06/12/03	Li et al.			
	DN	2002/0157798	01/16/02	Franks et al.			
CL	DO	2002/0066880	08/07/01	Robinson et al.			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CL	EA	20020025295	06/13/01	Kim	—	—	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION	
						YES	NO.
CL	EB	98/45530	10/15/98	WO	Larson		
CL	EC	97/48850	06/17/97	WO	Robinson et al.		
CL	ED	97/46754	12/11/97	WO	Irinatsu et al.		
CL	EF	97/46753	12/11/97	WO	Irinatsu et al.		
CL	EG	97/32076	09/04/97	WO	Wallberg et al.		
CL	EH	97/22750	12/13/96	WO	Borchardt		
CL	EI	97/14844	04/24/97	WO	Rasheed		
CL	EJ	97/22751	06/26/97	WO	Larson et al.		
CL	EK	96/11262	04/18/96	WO	Schillein et al.		
CL	EL	96/31646	10/10/96	WO	KAO Corporation		
CL	EM	96/13574	10/23/95	WO	Dunlop et al.		
CL	EN	95/21779	04/11/95	WO	Dunlop et al.		
CL	EO	95/26398	03/27/95	WO	Olsen et al.		
CL	EP	95/15296	11/29/94	WO	Werres		X
CL	EQ	95/12026	05/04/95	WO	Stockwell et al.		
CL	ER	95/09909	10/04/94	WO	Olsen et al.		
EXAMINER				DATE CONSIDERED <u>5/31/05</u>			
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CL	FA 95/00699	06/06/94	WO	Wallberg et al.	
CL	FB 93/22491	04/23/92	WO	Cook et al.	
CL	FC 91/03599	08/30/90	WO	PÄÄRT et al.	
CL	FD 90/05805	05/31/90	WO	Fischer et al.	X
CL	FE 0834614	04/08/98	EP	Irinatsu	
CL	FF 0726246	08/14/96	EP	Cody et al.	
CL	FG 0741203	04/26/96	EP	Evans et al.	
CL	FH 0717144	06/19/96	EP	Jobbins et al.	
CL	FI 0657578	12/06/94	EP	Schmid et al.	X
CL	FJ 0507325	10/07/92	EP	Hamaguchi	
CL	FK 0492507	07/01/92	EP	Ishibashi	
CL	FL 0307024	03/15/89	EP	Jansen	
CL	FM 0013027	12/24/79	EP	Hornfeck et al.	X
CL	FN 0013758	12/24/79	EP	Hornfeck et al.	X
CL	FO 2003012909	06/14/01	JP	Tetsuya et al.	
CL	FP 2003073987	09/03/01	JP	Mikiaki et al.	
CL	FQ 1140781	05/25/99	JP	Kao Corp.	
CL	FR 10219574	08/18/98	JP	Irinatsu	
CL	FS 10102390	04/21/98	JP	Irinatsu	
CL	FT 10088489	04/07/98	JP	Irinatsu	
EXAMINER <i>LZ</i>			DATE CONSIDERED <i>8/31/05</i>		

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APPLICANT Rosencrance et al.	GROUP 1731	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO.
CL	GA	10053988	02/24/98	JP	Irinatsu	
CL	GB	07145582	11/22/93	JP	Tokiya et al.	
CL	GC	07189154	12/24/93	JP	Tokiya et al.	
CL	GD	06228894	01/29/93	JP	Tadashi et al.	
	GE	06192986	07/12/94	JP	Lion Corp	
	GF	59150191	08/28/84	JP	Raion KK	
	GH	05025789	07/16/91	JP	Takanobu et al.	
	GI	04202879	07/23/92	JP	Nippon Kami Pulp Dendyusho K.K.	
	GK	03193987	08/23/91	JP	Hideaki et al.	
	GL	02160984	12/09/88	JP	Bare et al.	
	GM	01006190	01/10/89	JP	Fujisawa Pharmaceutical Co	
	GN	19508936	09/19/96	DE	Oppenlaender et al.	
	GO	4007598	09/12/91	DE	Bohlander et al.	
	GP	4007597	09/12/91	DE	Bohlander et al.	
	GQ	4007596	09/12/91	DE	Bohlander et al.	
	GR	2856845	07/17/80	DE	Hornfleck et al.	
	GS	59150191	08/28/84	JP	Raion KK	
	GT	2001288395	10/16/01	JP	Sakura Color Products Corp.	
	GU	2001355189	11/26/01	JP	Nikka Chemical Industry Co. Ltd.	
CL	GV	10338828	12/22/98	JP	Shachihata Ind. Co. Ltd.	

EXAMINER	<i>ZZ</i>	DATE CONSIDERED	<i>6/3/05</i>
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FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	NAME	TRANSLATION YES NO.
CL	HA 06049791	02/22/94	JP	Yoichi	
	HB 08120582	05/14/96	JP	Yoshitaka	
	HC 10101982	04/21/98	JP	Hiroyuki	
	HD 11100784	04/13/99	JP	Irinatsu	
	HE 2001279588	10/10/01	JP	Akinobu	
	HF 2002173884	06/21/02	JP	Akinobu	
	HI 58149394	09/05/83	JP	Kao Corp.	
	HJ 11001883	01/06/99	JP	Takashi	
W	HK 2001011786	01/16/01	JP	Kao Corp.	
CL	HL 205602	05/29/81	CS	Kostka	
	HM 2087745	02/04/72	FR	Hausner	
	HN 278679	12/10/97	SK	Vlasta	
	HO 1088952	07/06/94	CN	Yicai	
	HP 0926129	05/07/89	SU	Elena et al.	
	HQ 266815	01/12/90	CS	Tomas	
W	HR 10102391	04/21/98	JP	Irinatsu	
CL	HS 19631150	02/05/98	DE	Schiessling et al.	
HT					
HU					
HV					
EXAMINER			DATE CONSIDERED		
<i>CZ</i>			<i>8/21/05</i>		
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

PL	IA	PARK, K, PARK, J, and LEE JH, "Modification of cellulose with polyalkylene oxide allyl ester-maleic acid anhydride copolymer and its application to the pulp and paper industry," J. Appl. Polym. Sci., vol. 84, no.5, 2 May 2002, pp. 894-899.
PL	IB	Wu, Guohua, DENG, Yulin, ZHU, Junyong, "Collector chemistry in flotation deinking of photocopy papers," Progress in Paper Recycling (1998) 7(4), 20-27, Institute of Paper Science and Technology, Atlanta, GA, ISSN: 1061-1452.
PL	IC	DENG, Y., "Flotation Deinking Chemistry: Current Research Program at IPST," IPST, Technical Paper Series, 699, (Atlanta, GA), p. 11. <i>Jan. 1998</i>
PL	ID	LARSON, E., "Effects of polymeric additives in flotation of water based pigments during recycling of newsprints", 1997 Recycling symposium, Chicago, IL, USA, Apr. 14-16, 1997, pp. 167-173, Atlanta, GA, USA: TAPPI Press, 1997.
PL	IE	SANTOS A., CARRE, B., and RORING, A., "Contribution to a Better understanding of the Basic Mechanisms Involved in the Pulping and Flotation of Offset Ink Particles", 1996 Recycling Symposium, New Orleans, LA, USA, Mar. 5 - 7, 1996, TAPPI Press, pp. 339-348.
PL	IF	XIA, Z., BEAUDRY, A., and BOURBONNAIS R., "Effects of Cellulases on the Surfactant-Assisted Acidic Deinking of ONP and OMG", Prog. Pap. Recycling, Vol. 5, no. 4, pp. 46-58. <i>August, 1996</i>
PL	IG	TURRADO, S.J., GONZALEZ, R.L., RAMIREZ, P.R., Influence of Surfactants in Deinking, Invest. Tec. Pap., vol. 32, no. 123, Jan. 1995, pp 103-123, ISSN: 0368-0789.
PL	IH	EPPEL, M., BERG, J.C., The Effect of Adsorbed Surfactants on the Electrostatic Properties and Wettability of a Photocopy Toner, Prog. Pap. Recycling, vol. 3, no. 2, Feb. 1994, pp. 52-59, ISSN: 1061-1452.
PL	IJ	SCHMITT, G.D., DOSHI, M.R., "1991 Recycling Patents Review", Prog. Pap. Recycling, vol.1, no. 3, May 1992, pp. 74-77.
PL	IK	SUESSS, H.U. SCHUMACHER, W., NIMMERFROH, N. HOPF, B., REINOLD, A., "Two-Stage Alkaline-Acidic Flotation for Eliminating Difficultly Removable Printing Inks from Waste Paper", Papier, March 1991, Vol. 45, no. 3, pp. 89-96.
PL	IL	PUTZ, H.J. SCHAFFRATH, H.J., GOTTSCHING, L., "Deinking of Oil- and Water-born Printing Inks - A New Flotation Deinking Model", Paper presented at 1st Research Forum on Recycling held 29-31 Oct. 1991 at Toronto, Canada, pp 183-190 [Montreal, CA: Canadian Pulp and Paper Association, 1991, pp. 223.
PL	IM	HORNFECK, K., LIPHARD, M. SCHRECK, B., "Investigations of interfaces and technological tests about flotation of printing inks and fillers", Wochenschrift fuer Papierfabrikation (1990), 118(21), 935-41, ISSN: 0043-7131.
PL	IN	BALOS, B., PATTERSON, J., "Flotation Deinking Chemistry", PaperAge, (1990) no. 1990 Recycling Annual, pp. 15-17.

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JUN 13 2005 U.S. PATENT & TRADEMARK OFFICE		Application Number	10/706,450		
		Filing Date	November 12, 2003		
		First Named Inventor	ROSENCRANCE, Tomás et al.		
		Group Art Unit	1731		
		Examiner Name	ALVO, Marc S.		
Sheet 1 of 1		Attorney Docket Number	09328.105084		

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Number	Kind Code ^{2,3} (if known)			Pages, Columns, Lines, Where Relevant Passages/Relevant Figures Appear
CL	AA	5,227,019		BORCHARDT, John K.	07/13/1993	— —
CL	AB	6,544,383		ROBINSON et al.	04/08/2003	— —

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		Office	Number			Pages, Columns, Lines, Where Relevant Passages/Relevant Figures Appear
CL	AC	WO	93/22491	COOK et al.	11/11/1993	

Examiner Signature		Date Considered	2/1/05
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